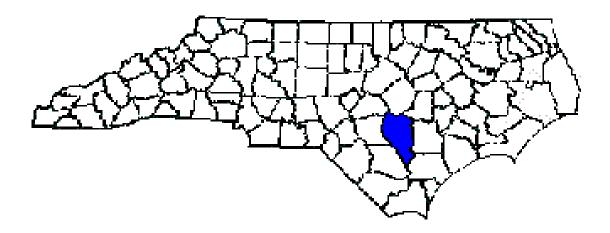
ANNUAL REPORT FOR 2010



Big Swamp Mitigation Site Sampson County TIP No. B-4271



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SUMMARY

The Big Swamp Mitigation Site is located in Sampson County. The site was planted in March 2008 and was designed as wetland mitigation for impacts associated with bridge project B-4271.

The mitigation encompasses approximately 0.06 acres total of wetland restoration with 0.03 acres of the restoration occurring underneath the new bridge span. The restoration effort involved removing causeway fill and transition area along both approaches to Bridge No. 98 to match the adjacent wetland evaluation. The restoration area was re-vegetated with bottomland hardwood species. Hydrologic monitoring is not required for this project; however vegetation monitoring is required for three years.

After the third year of monitoring, the Big Swamp Mitigation Site shows by visual observation that the restoration area is re-attaining wetland jurisdictional status and tree species planted in the wetland restoration area are surviving.

NCDOT proposes to discontinue vegetation monitoring at the Big Swamp Mitigation Site.

1.0 INTRODUCTION

1.1 Project Description

The Big Swamp Mitigation Site is located at Bridge No. 98 on SR 1246 (Butler Island Rd.) over Big Swamp (Figure 1). The site consists of approximately 0.06 acres of mitigation for wetland impacts associated with project B-4271.

1.2 Purpose

In order for a mitigation site to be considered successful, the site must meet vegetation success criteria. This report details the vegetation monitoring in 2010 at the Big Swamp Mitigation Site. Hydrologic monitoring was not required for the site.

1.3 Project History

March 2008	Site Planted
July 2008	Visual Monitoring (1 year)
March 2009	Supplemental Planting
July 2009	Visual Monitoring (2 year)
June 2010	Visual Monitoring (3 year)

1.4 Debit Ledger

The entire Big Swamp wetland mitigation site was used for the B-4271 project to compensate for unavoidable wetland impacts

2.0 VEGETATION: BIG SWAMP MITIGATION SITE (YEAR 3 MONITORING)

2.1 Success Criteria

NCDOT shall monitor the restoration site by visual observation and photo points for survival and aerial cover of vegetation. NCDOT shall monitor the site for a minimum of three years or until the site is deemed successful. Monitoring will be initiated upon completion of the site planting.

2.2 Description of Species

The following tree species were planted in the Wetland Reforestation area:

Liriodendron tulipifera, Tulip Poplar Platanis occidentalis, Sycamore Fraxinus pennsylvanica, Green Ash

2.3 Results of Vegetation Monitoring

The wetland restoration area is re-attaining jurisdictional status and the planted species are surviving. Planted species noted surviving included sycamore and green ash.

Site Notes: Other species noted: briars, woolgrass, baldcypress, sedge, tear-thumb, goldenrod, *Sagittaria* sp., *Juncus* sp., ragweed, red maple, sweetgum, and various wetland species.

2.4 Conclusions

There were approximately 0.06 acres total of wetland restoration on site. There were no plots established on the site. By visual observation, the Big Swamp Mitigation Site shows that the planted species are surviving in the planted areas and that the restoration area is re-attaining wetland jurisdictional status.

3.0 OVERALL CONCLUSIONS AND RECOMMENDATIONS

NCDOT proposes to discontinue vegetation monitoring at the Big Swamp Mitigation Site.

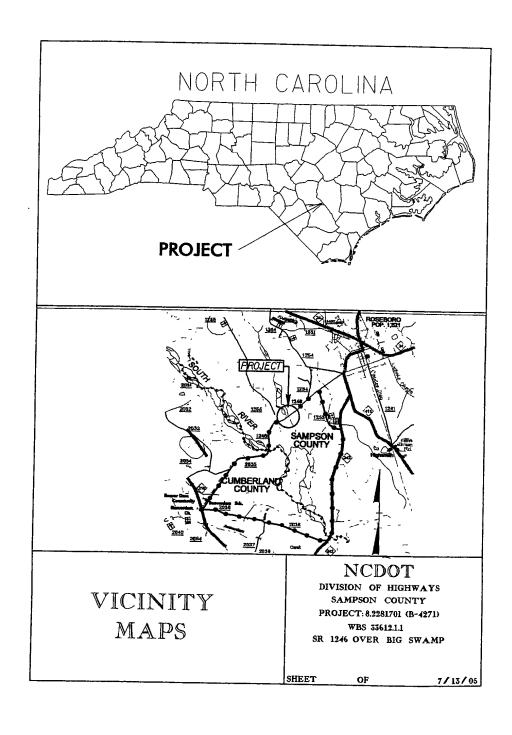


Figure 1. Site Location Map

APPENDIX A

SITE PHOTOS

Big Swamp Mitigation Site



Photo 1



Photo 3



Photo 2



Photo 4